Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

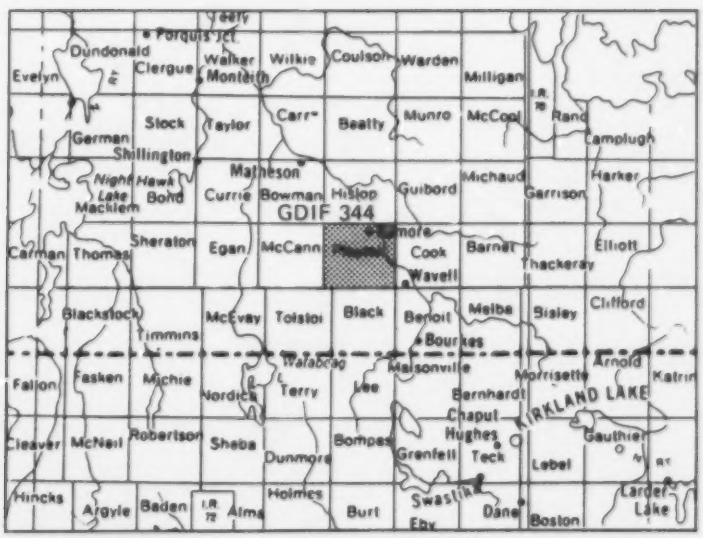
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 344

PLAYFAIR TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the staff of
the Resident Geologist's Office
Kirkland Lake



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

NTS Number 42A/8

Mining Claim Map Number

This project is part of Operation Black River-Matheson (BRIM) which was funded equally by the Ontario Ministry of Northern Development and Mines and the Ontario Ministry of Natural Resources.

STATEMENT This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1987: Playfair Township, District of Cochrane; Ontario Geological Survey, Geological Data Inventory Folio344, compiled by the staff of the Resident Geologist's Office, Kirkland Lake, 25p. and 2 maps.

Original Compilation by: F.M. Boucher, W.J. Dennis, K.D. Kalicharran, P.E. Savarie and B.J. Westin, September 30, 1986.

Date	Page Revised	Revised by

Date	Page Revised	Revised by

Playfair Tp.

TABLE OF CONTENTS

Data Sources Checklist 1
Metals and Minerals Reference List 2
Mineral Occurrences 3
Type of Work 5
Drill Hole Summary 8
Airborne Geophysical Survey Data 10
Geochemical Survey Data 11
Miscellaneous Data 12
Newspaper Clipping File 13
ODM General Index Search 14
Selected References 16
Notes and Addenda 24
GSC Index to Publications 25

ACCOMPANYING MAPS

Property Location Map 1
Exploration Data Map 1
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	W.J.D.
2	Assessment Files Research Office, Toronto	YES	P.E.S.
3	ODM General Index; 9 volumes	YES	P.E.S.
4	Catalogue of Airborne Geophysical Surveys (ODM)	–	–
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	K.D.K.
6	ODM Industrial Mineral Reports	NO	K.D.K.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	W.J.D.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	YES	W.J.D.
9	Newspaper Clippings File	YES	W.J.D.
10	GSC Index to Publications	YES	W.J.D.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	W.J.D.
12	OGS Index Maps	YES	K.D.K.
13	Source Mineral Deposit Records (O.G.S.)	NO	K.D.K.
14	Author - Subject Articles File	YES	K.D.K.
15	Miscellaneous Papers: ODM & OGS	YES	W.J.D.
16	ODM Geological Circulars: OGS Study Series	NO	K.D.K.
17	ODM Preliminary Reports: ODM Bulletins	NO	K.D.K.
18	ODM – OGS Open File Reports	YES	W.J.D.
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	K.D.K.
20	OGS Aggregate Resources Inventory Papers	NO	K.D.K.
21	OGS Mineral Potential Maps	YES	K.D.K.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite	△ fu. . . . . .Fuchsite	△ Ni. . . . . Nickel	△ st . . . . . .Stone
△ ank. . . . . .Ankerite	▲ gn. . . . . Galena	△ Nb . . . . . .Niobium	△ talc. . . . . .Talc
△ anna . . . . . Annabergite	△ gt. . . . . Garnet	△ Pd . . . . . .Palladium	△ Te . . . . . Tellurium
△ ap. . . . . .Apatite	△ goe. . . . . .Goethite	△ peat . . . . . .Peat	△ td. . . . . Tetrahedrite
△ arg . . . . . Argentite	▲ Au . . . . . Gold	△ pent . . . . . .Pentlandite	△ th . . . . . .Thorite
△ As . . . . . .Arsenic	△ gf. . . . . .Graphite	△ Pt. . . . . .Platinum	△ Th . . . . . .Thorium
△ asp . . . . . .Arsenopyrite	△ gl . . . . . Gravel	▲ py . . . . . .Pyrite	△ thuc . . . . . Thucholite
△ asb . . . . . .Asbestos	△ gyp. . . . . Gypsum	△ pyl . . . . . Pyrochlore	△ ti . . . . . Titanite
△ ba. . . . . .Barite	▲ hem . . . . . Hematite	△ pyrl . . . . . .Pyrolusite	△ Ti. . . . . Titanium
△ be. . . . . Beryl	△ il . . . . . Ilmenite	△ po . . . . . .Pyrrhotite	△ tour . . . . . .Tourmaline
△ Bi. . . . . .Bismuth	△ Fe . . . . . .Iron	▲ q . . . . . Quartz	△ trap . . . . . Trap rock
△ bn . . . . . .Bornite	△ IF. . . . . Iron Formation	▲ qcv . . . . .Quartz carbonate vein	△ W. . . . . Tungsten
△ bran . . . . . .Brannerite	△ jas . . . . . Jasper	△ ra. . . . . .Radioactive minerals	△ uran . . . . . Uraninite
△ bruc . . . . . .Brucite	△ kaol . . . . . .Kaolinite (kaolin)	△ RE . . . . . .Rare Earths	△ U . . . . . Uranium
△ Cd . . . . . Cadmium	△ ky . . . . . Kyanite	△ sd. . . . . Sand	△ verm . . . . . .Vermiculite
△ calc. . . . . Calcite	△ Pb . . . . . Lead	△ sgl . . . . . Sand and gravel	△ Y . . . . . Yttrium
△ carb . . . . . .Carbonate	△ lim . . . . . Limonite	△ ss . . . . . .Sandstone	△ Zn . . . . . .Zinc
△ cel . . . . . .Celestite	△ Li. . . . . Lithium	△ scap . . . . . Scapolite	△ zr . . . . . Zircon
△ cc. . . . . .Chalcocite	△ mgst . . . . . Magnesite	△ shee . . . . . .Scheelite	
▲ cp. . . . . .Chalcopyrite	△ mag . . . . . Magnetite	△ serp . . . . . Serpentine	
△ ch. . . . . .Chert	△ mc . . . . . Malachite	△ sh. . . . . Shale	
△ clay . . . . . .Clay	△ Mn . . . . . Manganese	△ sid . . . . . Siderite	
△ Co . . . . . Cobalt	△ mb . . . . . Marble	△ si . . . . . Silica	
△ cob. . . . . Cobaltite	△ mar. . . . . Marcasite	▲ Ag . . . . . .Silver	
△ cb. . . . . .Columbite	△ ma . . . . . .Marl	△ sl . . . . . Slate	
▲ Cu . . . . . .Copper	△ mi . . . . . Mica	△ sm . . . . . .Smaltite	
△ cor . . . . . Corundum	△ ml . . . . . .Millerite	△ sod. . . . . Sodalite	
△ dol . . . . . Dolomite	▲ mo . . . . . Molybdenite	△ spec . . . . . Specularite	
▲ ep. . . . . Epidote	▲ Mo . . . . . .Molybdenum	▲ sp. . . . . .Sphalerite	
△ ery . . . . . Erythrite	△ mon . . . . . Monazite	△ spd. . . . . .Spodumene	
△ fel . . . . . .Feldspar	△ ne. . . . . Nepheline (nepheline)	△ staur . . . . . .Staurolite	
△ fl . . . . . .Fluorite (fluorspar)	△ nc. . . . . .Niccolite	△ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or mentioned within Mineral Occurrences or the Drillhole Summary.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Ferguson, J. D. & Kekish, J. "K & F Property" (Fin Resources Inc.)	Au	-	Resident Geologist Assessment file, Kirkland Lake, Ont. NMI 42A/B Au 25	Quartz veins of average width 3' with 0.01oz Au/T
B	Temple Gold Mines, Ltd.	Au	-	Resident Geologist Assessment file, Kirkland Lake, Ont.	2' wide of 0.08oz Au/T among basalt with pyrite in spots and quartz
C	Tremblay, F.	Au	-	Resident Geologist Assessment file, Kirkland Lake, Ont.	Trending samples of pyritize basalt with quartz stringers
D	Mobb, F.	Au,Ag,Cu,Mo	C0237	GS 1922, AR Vol 31 Pt 7, p 20 OGS 1971, MRC 13, p 135 OFR 5467 NMI 42A/B Au 10	Syenite Dykes intrude mafic volcanics and three parallel quartz-calcite veins are mineralized with pyrite, chalcopyrite and molybdenite. The best assay was 3oz Au/T and 9oz Ag/T over a width of 4 ft. Trenching by Frederick Mobb in 1909
E	Noranda Occurrence	Au	-	ODM Map 45d, Ramore area ODM 1936, Vol 45, pt 6, p 36-37 OGS 1971, MRC 13, p 135	Zone of quartz stringers 400ft long and up to 15ft wide in mafic volcanics. Trenching and diamond drilling before 1935 by Noranda Mines Ltd.

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
F	Ramore Occurrence	Au	-	ODM Map 45d, Ramore area ODM 1936, Vol 45, pt 6, p 36 OGS 1971, MRC 13, p 135 OFR 5467 NMI 42 A/B Au 25	Shaft 70 ft deep, pit 15 ft deep in syenite containing quartz stringers and mineralized with pyrite and gold

PLAYFAIR TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Bodick, J.			84																
2	Compton Explorations Ltd.	66						66								66				
3	Canadian Arrow Mines Ltd.											73	73							
4	David Copperfield Exploration Ltd.							56												
5	Drew, D.											46								
6	Ferguson, J. D. & Kekish, J. "K & F Property" (Fin Rsources Inc.)	75			76			75				77 75 73	73							
7	Gray, M.			74	74															
8	International Nickel Co. of Canada Ltd., The				64															
9	Miller, W.H.							47 62												
10	Mobbs Gold Mines, Ltd.				65															

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
11	Playfair Resources Inc.				83 81				85	85										
12	Sherwin Minerals Ltd. "Hames, C.M. claims"	73			74			73				73								
13	Spar Holdings & Exploration Ltd.	75																		
14	Standen, L.			83 86																
15	Temple Gold Mines, Ltd.			45	45															
16	Tremblay, F.			48																
17	Marjel Resources Inc.												85							
18	Noranda Exploration Co. Ltd. "Playfair Group"								85	85										

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE	COMPANY/AUTHOR (file number)		
		GEOLOGICAL	
		GEOCHEMICAL	
		TRENCHING, STRIPPING	
		DRILLING	
		ASSAY DATA	
		UNDERGROUND WORK	
		PROSPECTUS, NOTES, CORRESPONDENCE	
		AIRBORNE MAGNETOMETER	
		AIRBORNE ELECTROMAGNETIC	
		AIRBORNE RADIOMETRIC	
		GROUND MAGNETOMETER	
		GROUND ELECTROMAGNETIC	
		GROUND RADIOMETRIC	
		INDUCED POLARIZATION	
		SELF POTENTIAL	
		RESISTIVITY	

GDIF FORM

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Da Include for
1	Ferguson, J.D. & Kekish, J. "K & F Property" (Fin Resources Inc.)	76-1	02/76	0°	-45°	64'	797'	py,ep,qcv,gn, mag,sp,cp	Au
2	" " "	76-2	03/76	90°	-45°	15'	606'	ep,qcv,py,cp, sp	Au
3	Gray, M.	1	08/74	180°	-63°	0	280'	py,cp,qcv	-
4	" "	2	08/74	0	-55°	0	103'	cp,ep,qcv	-
5	International Nickel Co. of Canada, Ltd., The	BH-26680	09/64	0	-60°	73'	369'	-	-
6	Mobbs Gold Mines Ltd.	1	06/65	70°	-38°	0	101'	py,qcv	-
7	Playfair Resources	83-1	12/83	315°	-40°	180'	400'	ep,q	-
8	" "	P83-1†	12/83	315°	-40°	190'	701'	qcv,ep,py	-
9	" "	81-1†	09/81	135°	-50°	147'	666'	ep,py,hem	-
10	" "	P81-2†	09/81	135°	-50°	135'	355'	ep,qcv,py	-
11	Sherwin Minerals Ltd. "Hames, C.M. claims"	A	02/74	180°	-45°	22'	502'	py,ep,hem	Au
12	" " "	B	02/74	180°	-45°	14'	502'	ep,hem,q	Au,Cu
13	Temple Gold Mines, Ltd.	1	06/45	-	-90°	8'	231'	qcv,py,ep	Au
14	" " " "	2	06/45	180°	-45°	13'	111'	py,qcv	Au
15	" " " "	3	06/45	360°	-45°	15'	215'	py,qcv	Au

GDIF FORM

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
16	Temple Gold Mines, Ltd.	4	06/45	90°	-45°	14'	125'	py,qcv	Au
17	" " " "	5	06/45	270°	-45°	6'	212'	py,qcv	Au
18	" " " "	6	06/45	90°	-45°	4'	132'	py,qcv	Au
19	" " " "	7	06/45	90	-70°	5'	135'	py,qcv	Au
20	" " " "	8	06/45	90°	-45°	4'	156'	py,qcv	-
21	" " " "	9	06/45	90°	-45°	3'	150'	qcv,py	Au
22	" " " "	10	06/45	90°	-60°	3'	153'	py,qcv	Au
23	" " " "	11	06/45	90°	-45°	4'	50'	py,qcv	-
24	" " " "	12	06/45	90°	-60°	6'	510'	py,qcv	Au
25	" " " "	13	07/45	-	-90°	5'	116'	py,qcv	Au
26	" " " "	14	07/45	-	-90°	5'	86'	py,qcv	Au
27	" " " "	15	07/45	270°	60°	6'	125'	qcv,py,ep	Au

GDIF FORM NO. 1

† - Core stored at Swastika Drill Core Storage Library

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	Terraquest Ltd.	Electromagnetic: (Herz Industries TOTEM 2A, VLF-EM)	100m	N-S	100m
	Playfair Resources Inc.	Magnetometer: (GEM Systems Inc. GSM-8BA proton procession)	100m	N-S	100m

GDIF FORM NO. 4

PLAYFAIR TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

Northern Miner

Compton Explorations	September 1, 1966 February 2, 1967 August 1, 1968
David Copperfield	July 5, 1956
De Beers Consolidated Mines Limited	September 15, 1966 December 29, 1966
Delbridge Mines	June 25, 1970 December 10, 1970
Fin Resources	August 31, ?
Windfall Oil & Mines	April 22, 1976

Globe & Mail

De Beers Consolidated Mines Ltd.	October 15, 1968

ODM GENERAL INDEX SEARCH

Words searched: Black River Area
Playfair Township
Ramore Gold Area
Ramore Gold Mines
Ramore, Playfair Tp.
Watabeag Lake Area

Index Volume	Listing:	Report Volume	Part	Page
2	Playfair Tp., Cochrane dist.			
	see also. Black r.			
	Agricultural land	31	7	6
	Description	31	7	23,24
	Forest fires	31	7	5
	Gold	31	7	18,19,24
		34	1	52
	discovery	30	2	4
	Maps. see map 30c	30	6	
	and map 31d	31	7	
	Rocks	31	7	iv,14,24
	conglomerate and lavas, notes and photo	31	7	7-11
	Waterpower	31	7	5
	Black River Area, Tim. and Coch.			
	see also. Watabeag Lake area			
	Early history	30	6	29
	Geology	30	6	47
	economic	30	6	47
	Map. geolgical, coloured	30	6	
	index	30	6	28
	Report by D.G.H. Wright	30	6	27-62
	Topography	30	6	30
	Watabeag Lake Area, Tim. and Coch.			
	Access to	31	7	2
	Agricultural land	31	7	6
	Geology	31	7	7-18
	economic	31	7	18-23
	new discoveries (1924)	34	1	52
	rocks	31	2	351
	Gold and Iron. see above Geology economic			
	Map	31	7	iv
	Key	31	7	ii
	Report by D.G.H. Wright	31	7	
	Timber; topography; waterpowers	31	7	3,5
3	Playfair Tp., Cochrane			
	see also Ramore			
	Glacial Deposits	45	6	2,4
	Gold mg. properties	45	6	11,35-37
	Rocks	45	6	6-9,14
	see also map 45d	45	6	

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
	Ramore, Playfair Tp.			
	Altitude	45	6	4
	Geology, see Ramore g. area			
	Photo	45	6	2
	Ramore Gold Area, Coch.			
	Report on, by E. S. Moore	45	6	1-37
	Ramore Gold Mines, Ltd.			
	Claims, Playfair tp.	45	6	36
	Incorporated	37	1	59
	Mine manager and address	46	1	76
6	Playfair Tp., Coch.			
	Rocks	65	5	13-16
		65	5	6,18
	conglomerate photo	65	5	16
9	Playfair Tp., Coch. Dist.			
	Gravity Survey of the Timmins-Matheson area	GR135		

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Boissoneau, A.N.	1965	Algoma-Cochrane Surficial Geology, Ontario	ODL & F Map S365	1:506 880
Boissoneau, A.N.	1965	Algoma, Sudbury, Timiskaming and Nipissing Surficial Geology	ODL & F Map S465	1:506 880
Ginn, R.M. Leahy, E.J. Savage, W.S.	1962	Matheson-Black Sheet, District of Cochrane Preliminary Geological Map	ODM Map P.119	1:63 360
Ginn, R.M. Leahy, E.J. Savage, S.W.	1962	Munro-Pontiac Sheet, District of Cochrane Preliminary Geological Map	ODM Map P.120	1:63 760
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2046	1:253 440
Lumbers, S.B. Milne, V.G.	1976	Ontario Geological Map, East Central Sheet	OGS Map 2393	1:1 013 760
MERQ-OGS	1984	Lithostratigraphic Map of the Abitibi Subprovince	OGS Map 2484 Que Map DV83-16	1:500 000
Ministry of Natural Resources	1985	Ontario Mineral Map	ODM Map 2472	1:1 584 000
Pyke, D.R., Ayres, L.D. & Innes, D.G.	1973	Timmins - Kirkland Lake, Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2205	1:253 440

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOPHYSICAL MAPS		
Data Plotting Services Inc	1985	Matheson Black River Area (BRIM) Airborne Magnetic Survey Second Vertical Derivative	OGS Resident Geologist's Office, Kirkland Lake, Ontario	1:100 000
Data Plotting Services Inc	1985	Matheson Black River Area (BRIM) Magnetic Survey Total Field	OGS Resident Geologist's Office, Kirkland Lake, Ontario	1:80 000
Middleton, R.S.	1975	Gravity control network in the Timmins, Matheson and Cobalt areas, Cochrane and Timiskaming Districts Ontario	ODM GR 127 Chart A	1:506 880
Middleton, R.S.	1976	Gravity survey of geological structures in the Timmins and Matheson area, NTS 42A, Cochrane, Sudbury and Timiskaming Districts	ODM GR 135 Maps:2321 2322	1:250 000
ODM-GSC	1970	Ramore, Cochrane and Timiskaming Districts, Ontario	GSC Map 295G	1:63 360
ODM-GSC	1970	Ramore, Cochrane and Timiskaming Districts, Ontario	GSC Map 8433G	1:31 680
ODM-GSC	1970	Timmins, Cochrane, Timiskaming and Sudbury Districts Ontario, Total Field Contour Map	GSC Map 7085G	1:250 000

GDIF FORM NO. 9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
OGS	1984	Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River area, Playfair Township	OGS Map 80 605	1:20 000 1:31 680
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Total Count, Timmins NTS 42A.	OGS Map 80 280 GSC Map 31542G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Potassium (percent), Timmins NTS 42A.	OGS Map 80 281 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Uranium (eU), Timmins, NTS 42A.	OGS Map 80 282 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Thorium (eTh), Timmins, NTS 42A.	OGS Map 80 283 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/Th Ratio, Timmins, NTS 42A.	OGS Map 80 284 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/K Ratio, Timmins, NTS 42A.	OGS Map 80 285 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Intergal U, Th, K, U/Th, U/K, Th/K for line 57(1), Timmins, NTS 42A.	OGS Map 80 312 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Intergal U, Th, K, U/Th, U/K, Th/K for line 58(1), Timmins, NTS 42A.	OGS Map 80 313 GSC Map 35142G	1:250 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Intergal U, Th, K, U/Th, U/K, Th/K for line 59(1), Timmins, NTS 42A.	OGS Map 80 314 GSC Map 35142G	1:250 000
		GEOLOGICAL MAPS AND REPORTS		
Averill, S.A. MacNeil, K.A. Huneault, R.G. Baker, C.L.	1986	Rotasonic Drilling Operations (1984) and Overburden Heavy Mineral Studies, Matheson Area District of Cochrane	OGS OFR 5569	61p.
Baker, C.L. Seaman, A.A. Steele, K.G.	1980	Quaternary Geology of Ramore Area, Districts of Cochrane and Timiskaming	OGS Map P.2381	1:50 000
Baker, C.L.	1982	Drift Thickness of the Ramore Area, Cochrane and Timiskaming Districts. Drift thickness series.	OGS Map P.2477	1:50 000
Baker, C.L.	1982	Sand and Gravel Resources of the Ramore Area, Cochrane and Timiskaming Districts	OGS Map P.2489	1:50 000
Baker, C.L. Steele, K.G. Fortescue, J.A.C.	1984	Reconnaissance Till Sampling Program in the Matheson Area	OGS MP 119	p.295-298
Baker, C.L. Steele, K.G. McLenaghan, M.B. Fortescue, J.	1984	Location of Gold Grains in Sonic Drill Core Samples from the Matheson area, Cochrane District	OGS Map P.2736	1:100 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Baker, C.L.	1985	Quaternary Geology of the Kirkland Lake Area, Districts of Cochrane and Timiskaming.	OGS OFR 5553	144p.
Ferguson. S.A. Groen, H.A. Haynes, R.	1971	Gold Deposits of Ontario. Mineral Resources Circular No. 13	ODM Circ. 13 pt. 1	315p.
Hodgson, C.J.	1983	Preliminary Report on the Timmins-Kirkland Lake Area Gold Deposits File	OGS OFR 5467	434p.
Hopkins, P.E.	1922	Ontario Gold Deposits, Their Character, Distribution and Productiveness	ODM AR 1921 v.30, pt.2	
Hughes, D.L.	1960	Surficial Geology of Kirkland Lake, Timiskaming and Cochrane Districts, Ontario	GSC Map 1-1960	1:126 720
Jensen, L.S.	1974	No. 16 Ramore Area, Districts of Timiskaming and Cochrane	ODM MP 59	p.99-106
Jensen, L.S.	1975	No. 16 Ramore Area, Districts of Timiskaming and Cochrane	ODM MP 63	p.73-75
Jensen, L.S.	1985	Precambrian Geology of the Ramore Area	OGS OFM 12	1:50 000
Jensen, L.S.	1985	Precambrian Geology of the Ramore Area, Northwestern Part, District of Cochrane (42A/8)	OGS Map P.2860	1:15 840
Jensen, L.S. Baker, C.L. Trowell, N.F.	1985	Preliminary Results of Bedrock Samples From the Sonic Drilling Program in the Matheson Area, Cochrane District	OGS Map P.2848	1:100 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Johnston, F.J.	1968	Molybdenum deposits of Ontario	ODM Circ. 7	
Lee, H.A.	1979	Northern Ontario Engineering Geology Terrain Study, Data Base Map, Kirkland Lake	OGS Map 5030	1:100 000
Lovell, H.L. Frey, E.D. GSC Staff	1973	Playfair Township, District of Cochrane Kirkland Lake Data Series	ODM Map P.830	1:15 840
Lovell, H.L. Grabowski, G.	1981	1980 Report of the Kirkland Lake Resident Geologist	OGS MP 95	p.86-107
Moore, E.S.	1936	Geology & Ore Deposits of the Ramore Area, Cochrane District, Ontario	ODM AR 45 pt.6 Map 45D	p.1-37 1:126 720
OGS	1986	Sonic Drillholes 84-14, Hislop Tp. and 84-16, Playfair Township, Ontario	OGS Map 80 773	1:100 000
OGS	1986	Sonic Drillhole 84-15, Playfair Tp., District of Cochrane	OGS Map 80 774	1:100 000
OGS	1986	Backhoe Till Samples, Playfair and McCann Tps., Cochrane District	OGS Map 80 796	1:100 000
Ploeger, F. Campbell, A.	1979	Playfair Township, District of Cochrane Kirkland Lake Data Series	OGS Map P.830 (Rev.)	1:15 840
Rogers, W.R. Young, A.C.	1926	Statistical Review of Ontario's Mineral Industry in 1925	ODM AR v.34 pt.1	p.1-60

GDIF FORM NO.

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Rogers, W.R. Young, A.C.	1928	Statistical Review of Ontario's Mineral Industry in 1927	ODM AR v.37 pt.1	p.1-68
Steele, K.G. McClenaghan, M.B. Baker, C.L.	1986	Gold Grains in Backhoe Till Samples (1984-1985) from the Matheson-Lake Abitibi Area, District of Cochrane	OGS Map P.2983	1:100 000
Vagners, U.J.	1983	Quaternary Geology of the Matheson and Lightning River Areas, District of Cochrane	OGS MP 116	p.101-103
Wright, D.G.H.	1922	The Black River Area.	ODM AR v.30 pt.6 Map 30C	p.27-62 1:63 360
Wright, D.G.H.	1922	Geology of the Watabeag area, Timiskaming and Cochrane Districts, Ontario	ODM AR v.31 pt.7 Map 31D	33p. 1:63 360
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Geissman, J.W. Strangway, D.W. Tasillo, A.M.	1981	Paleomagnetism of Late Archean Metavolcanics and Metasediments, Abitibi Orogen, Canada I. Tholeiites of the Kinojevis Group.	OGS OFR 5365	54p.
Grady, J.C.	1950	Matachewan Diabase Dikes of North Eastern Ontario	Msc. Thesis McMaster U.	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Letros, S. Strangway, D. Tasillo-Hirt, A. Geissman, J. Jensen. L.	1983	Aeromagnetic Intepretation of the Kirkland Lake-Larker Lake Portion of the Abitibi Greenstone Belt, Ontario	Canadian J. of Earth Sciences v.20	p.548-560
Letros, S.	1981	Geological Interpretation of High Resolution Area Magnetism Data in Kirkland-Larder Lake Area	Msc. Thesis U of Toronto	
Smith, I.E.M.	1980	Geochemical Evolution in the Blake River Group, Abitibi Greenstone Belt, Superior Province.	Canadian Journal of Earth Sciences v.17	p.1292-1299
Strangway, D.W. Geissman, J.W. Bambrick, J. Letros, S. Tasillo, A.M.	1981	Grant #20. Magnetism & Stratigraphy in the Blake River Volcanics.	OGS OFR 5365 pt. 5	
Tasillo-Hirt, A.M. Geissman, J.W. Strangway, D.W. Jensen, L.S.	1982	Paleomagnetism of the Lake Archean Metavolcanics and Metasediments, Abitibi Orogen, Canada Volcanics of Blake River Group.	Canadian Journal of Earth Sciences v. 19	p.2100-2113

GDIF FORM NO.9

NOTES AND ADDENDA

Aerial Photography
on file in Kirkland Lake
Resident Geologist's Office

YEAR	ROLL	FLIGHT LINE	PHOTO
1959	4815	33	112
	4815	33	113
	4815	33	114
	4815	33	115
	4815	33	116
	4815	33	117
1971	4816	43	43
	4816	43	44
	4816	43	45
	4816	43	46
	4816	43	47
	4816	43	48
	4816	43	49
	4816	43	50
1971	4817	9	228
	4817	9	229
	4817	9	230
	4817	9	231
	4817	9	232
	4817	9	233
	4817	9	234
1971	4818	9	129
	4818	9	130
	4818	9	131
	4818	9	132
	4818	9	133
	4818	9	134
	4818	9	135
	4818	9	136

GDIF FORM NO.8

GSC INDEX TO PUBLICATION

Words searched: Playfair Township

Index Volume	Listing:	Report Volume	Part	Page
1927 to 1950	Playfair Township Ontario Gold Deposit	M-192		28, 29 32, 33

GDIF FORM NO. 8

Ontario

Ministry of Northern Develo and Mines

ONTARIO GEOLOGICAL SUB

PROPERTY LOCATION M

GEOLOGICAL DATA INVENTORY

(Map 1 of 2)

PLAYFAIR TOW

DISTRICT OF COCHRAN

Scale 1:31 680

Kilometre 0.5 0 0.5

Mile 0.5 0 0.5

Saboutin Lake

Warrell Lake

Wildgoose

Dell Lake

Mobbs L.

Ramore

Talbock Lake

RAMORE AIRFIELD (ABANDONED)

48°26'00"

80°18'00"

80°23'00"

Kilbear

Creek

River

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 344

(Map 1 of 2)

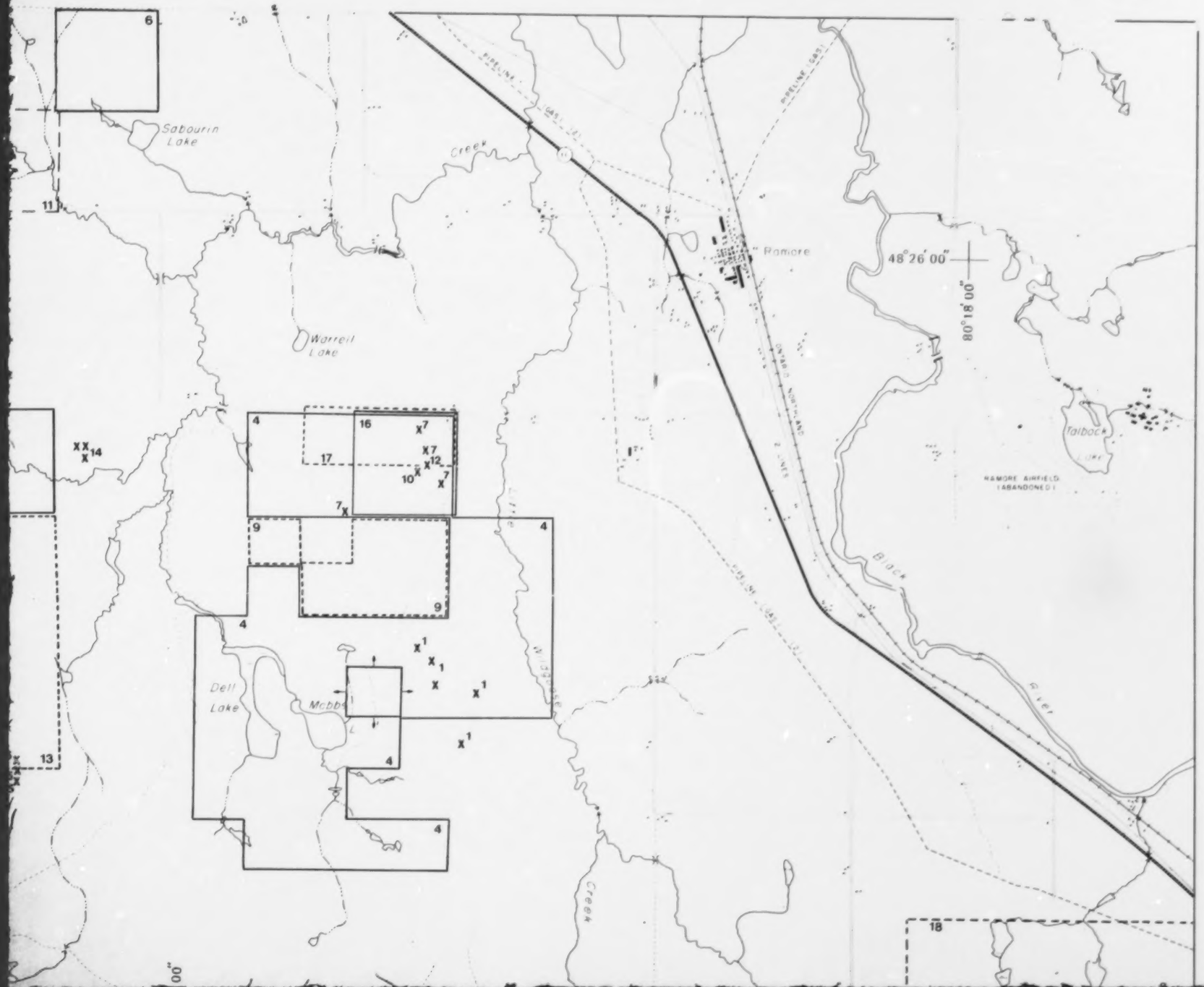
PLAYFAIR TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



GEOLOGICAL DATA INVENTORY

(Map 1 of 2)

PLAYFAIR TOW

DISTRICT OF COCHRAN

Scale 1:31 680

Kilometre 0.5 0 0.5

Mile 0.5 0 0.5

Warrell Lake

Wildgoose

Dell Lake

Kitchen L

Couley Lake

Ramore

Talbot L

RAMORE AIRFIELD (ABANDONED)

Wright Lake

Little Wright L

48°26'00"

80°18'00"

80°23'00"

48°22'30"

EXPLORATION DATA FILE

Reference number is always inside
See listing in text pages.

Small area exploration.

GEOLOGICAL DATA INVENTORY FOLIO 344

(Map 1 of 2)

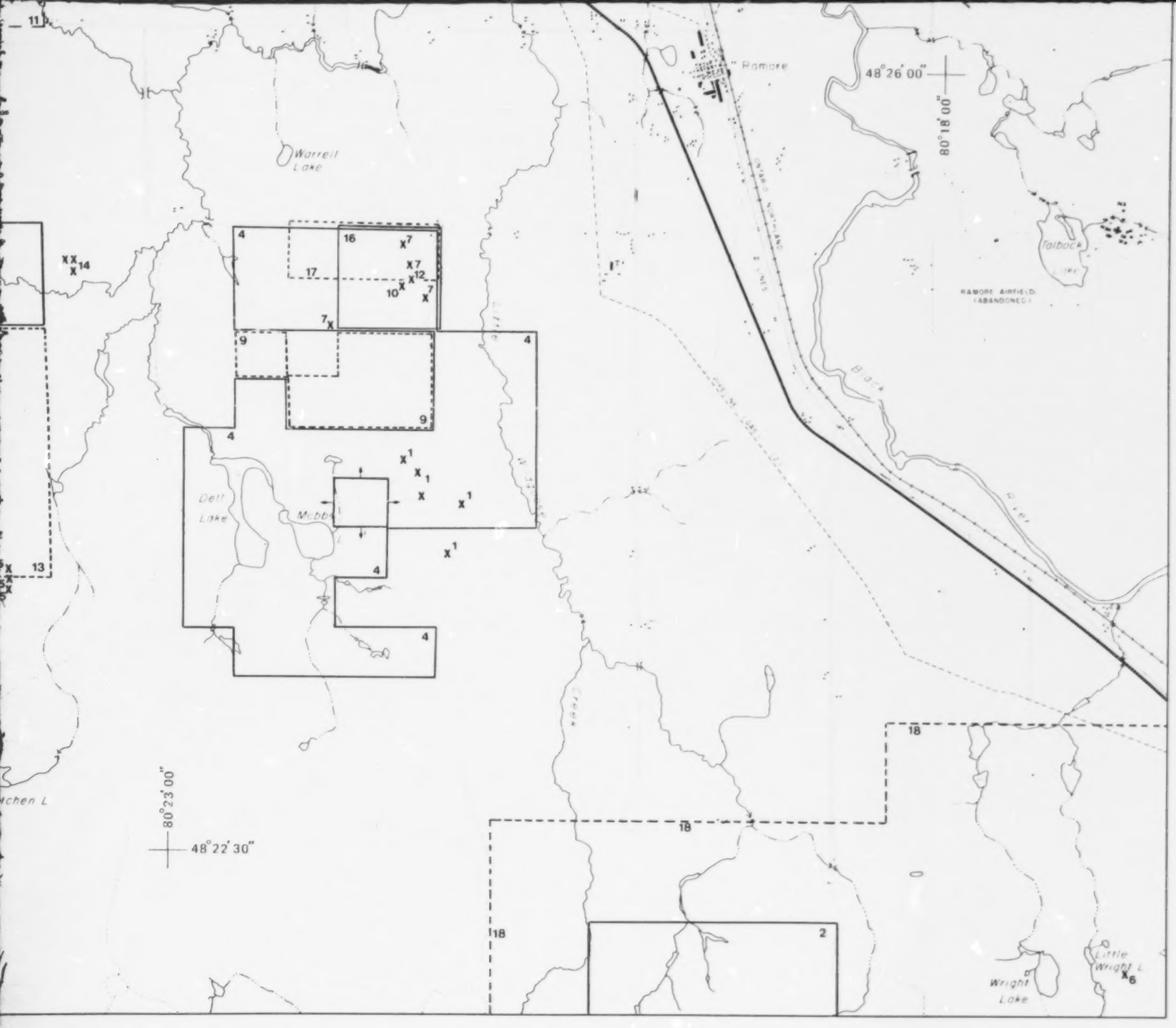
PLAYFAIR TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

■ x ④ Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

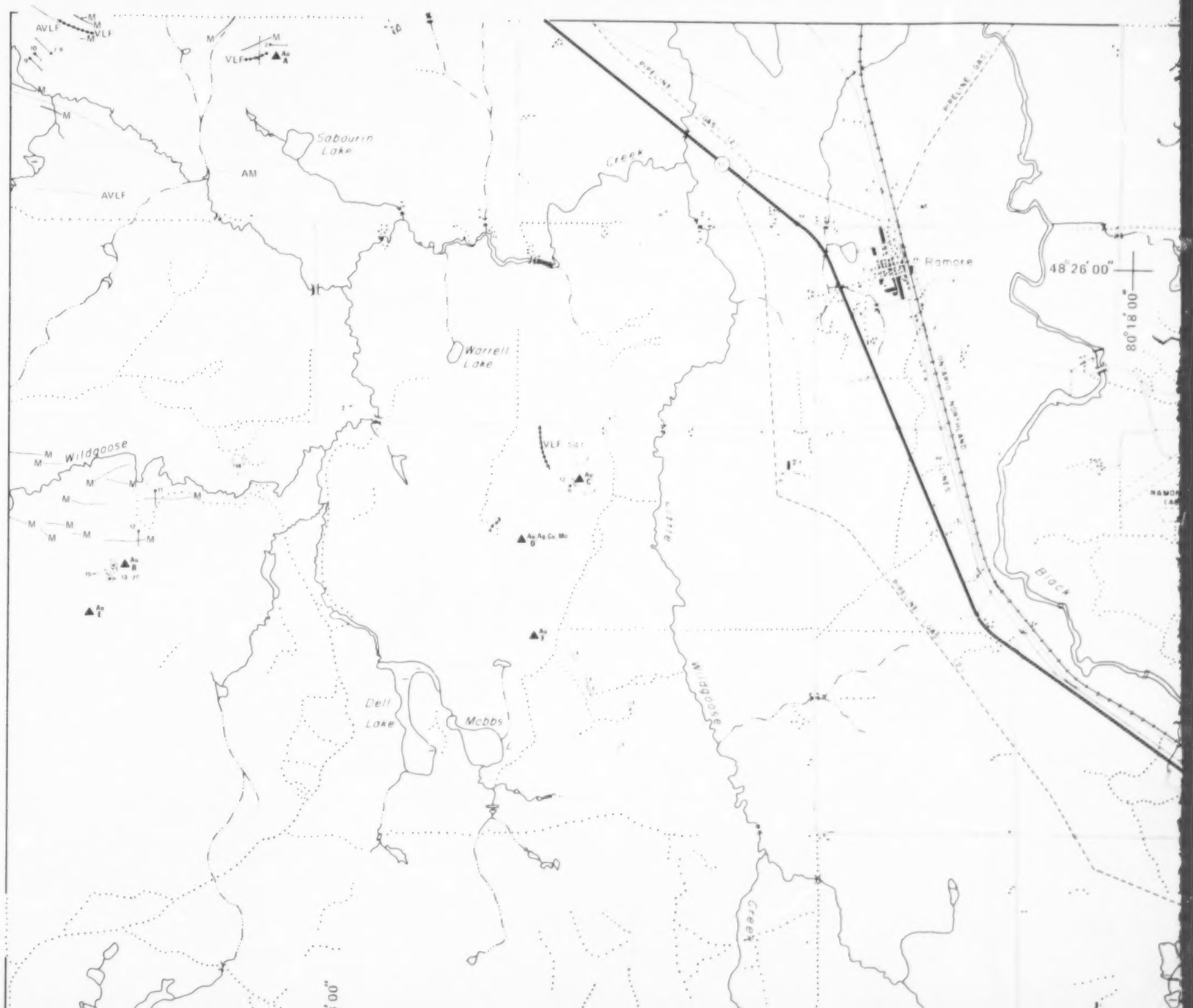
- ☐ ◆³ — Geochemical sample site, with reference number
- ☐ ◆³ — Area of geochemical sampling, with reference number
- ☐ ✳² — Age dating material sampling site, with reference number

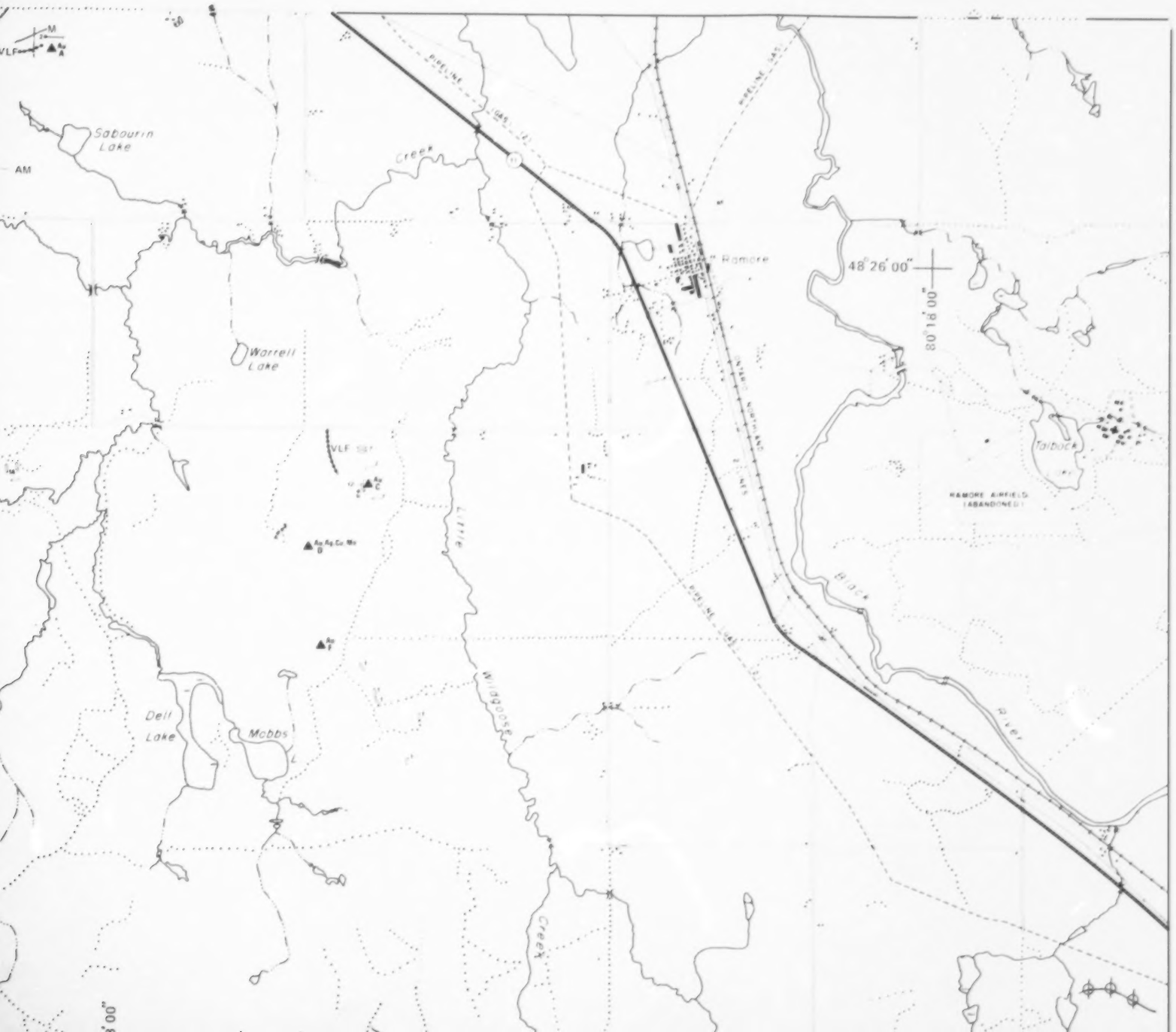
GEOPHYSICAL ANOMALIES

- ■ —AM— Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ AVLF — Airborne electromagnetic anomaly (VLF - very low frequency)
- ☐ —ARA— Airborne radiometric anomaly
- ■ —M— Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop; VLF - Very low freq; Turam; JEM - Crone Em - 16)
- ☐ —RA— Ground radiometric anomaly
- ☐ —IP— Induced polarization anomaly
- ☐ —SP— Self potential anomaly
- ☐ —AFMAG— Audio-frequency magnetic anomaly (total intensity)
- ☐ —R— Resistivity anomaly
- ☐ —GR— Gravity anomaly

MISCELLANEOUS DATA

- ■ ▱² — Trenching, pit, property no.
- ☐ ⚒ — Rock quarry





Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 344

(Map 2 of 2)

PLAYFAIR TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter

DRILLHOLE

- ² — Location of single drillhole, with reference number
- ² — Location of closely spaced group of drillholes, with reference number
- ?² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with

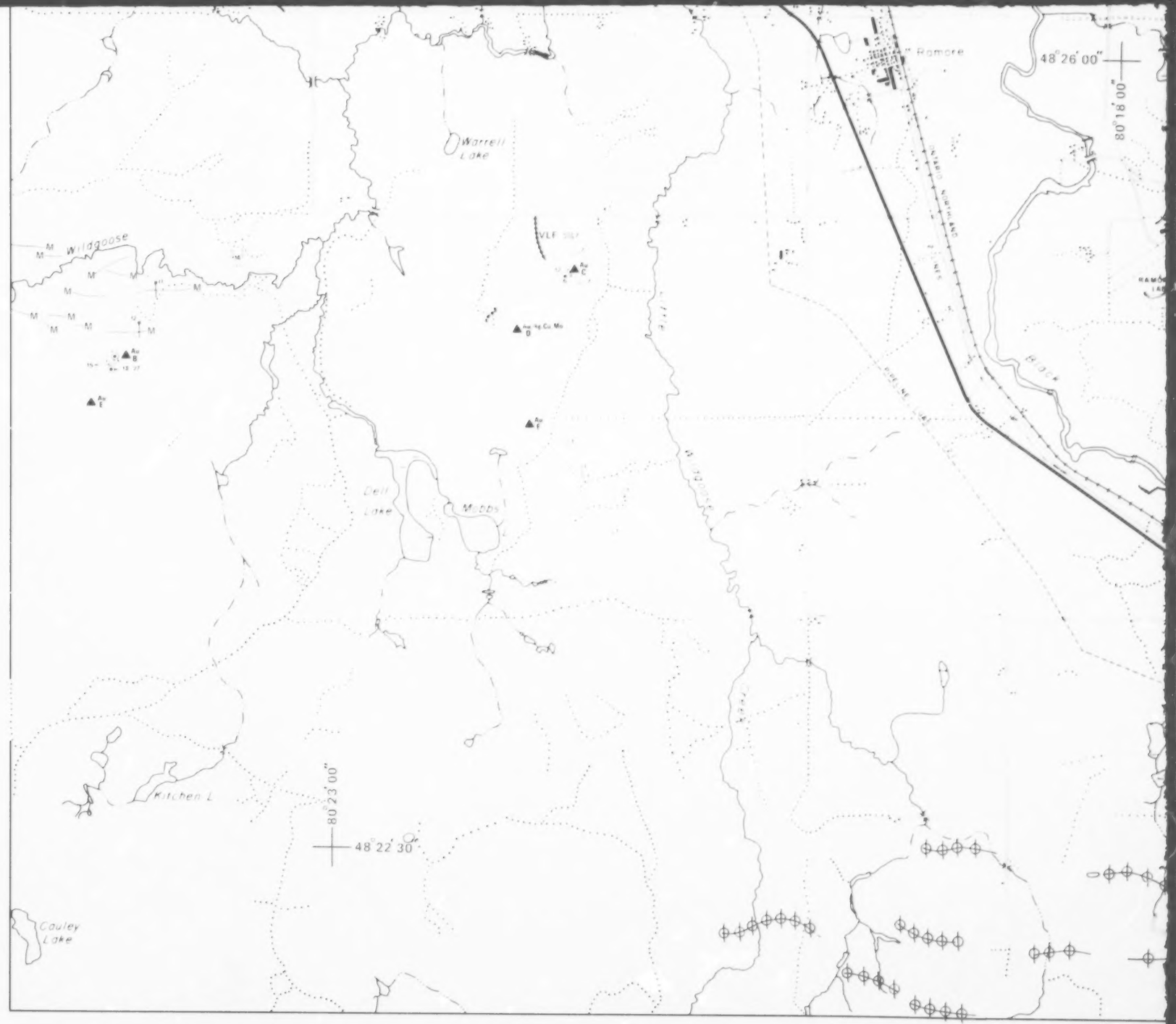
GEOPHYSICAL ANOMALIES

- ■ AM — Airborne magnetic anomaly
- □ Airborne electromagnetic anomaly
  Length of anomaly along flight line
- □ Airborne electromagnetic anomaly
  Location of anomaly along flight line
- □ AVLF — Airborne electromagnetic anomaly
  (VLF - very low frequency)
- □ ARA — Airborne radiometric anomaly
- ■ M — Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- □ RA — Ground radiometric anomaly
- □ IP — Induced polarization anomaly
- □ SP — Self potential anomaly
- □ AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- □ R — Resistivity anomaly
- □ GR — Gravity anomaly

MISCELLANEOUS DATA

- ■ Trenching, pit, property no.
- □ Adit
- □ Open pit
- □ Rock quarry
- □ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



(Map 2 of 2)

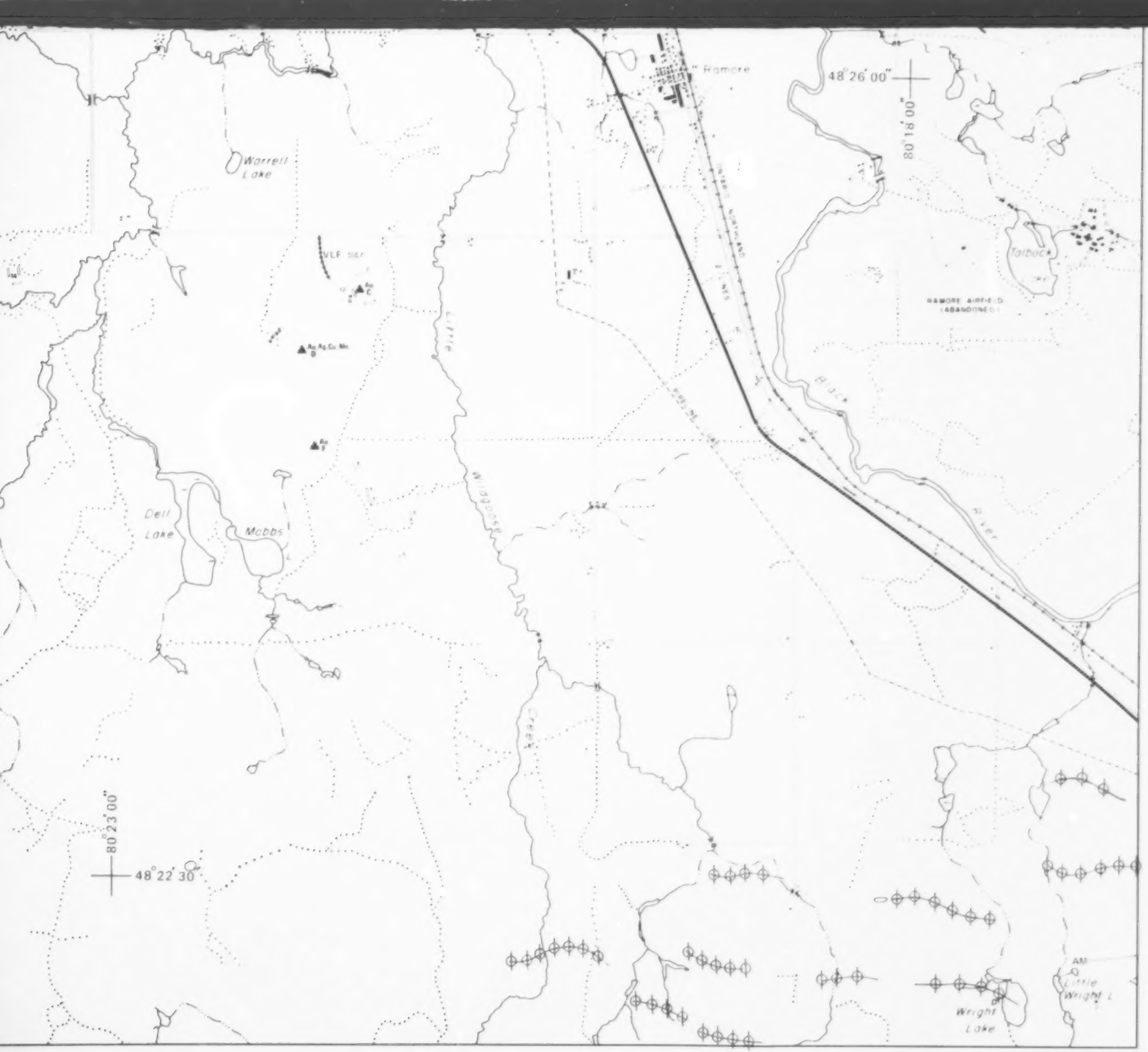
PLAYFAIR TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp A. — Mineral occurrence at surface, with reference letter
- □ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- □ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp A. — Mineralized float with reference letter

DRILLHOLE

- ■ ●² — Location of single drillhole, with reference number
- ■ ◉² — Location of closely spaced group of drillholes, with reference number
- □ ?² — Drillhole, exact location uncertain, with reference number
- □ ◎ — Property with underground drillholes in this general area, with reference number
- □ ○² — Property with drillholes which have not been plotted on map, with reference number
- □ ⊕² — Reverse circulation drillhole; churn drilling, with reference number